

Great Lakes Navigation Stakeholder Meeting Shallow Draft Harbor Needs & Issues

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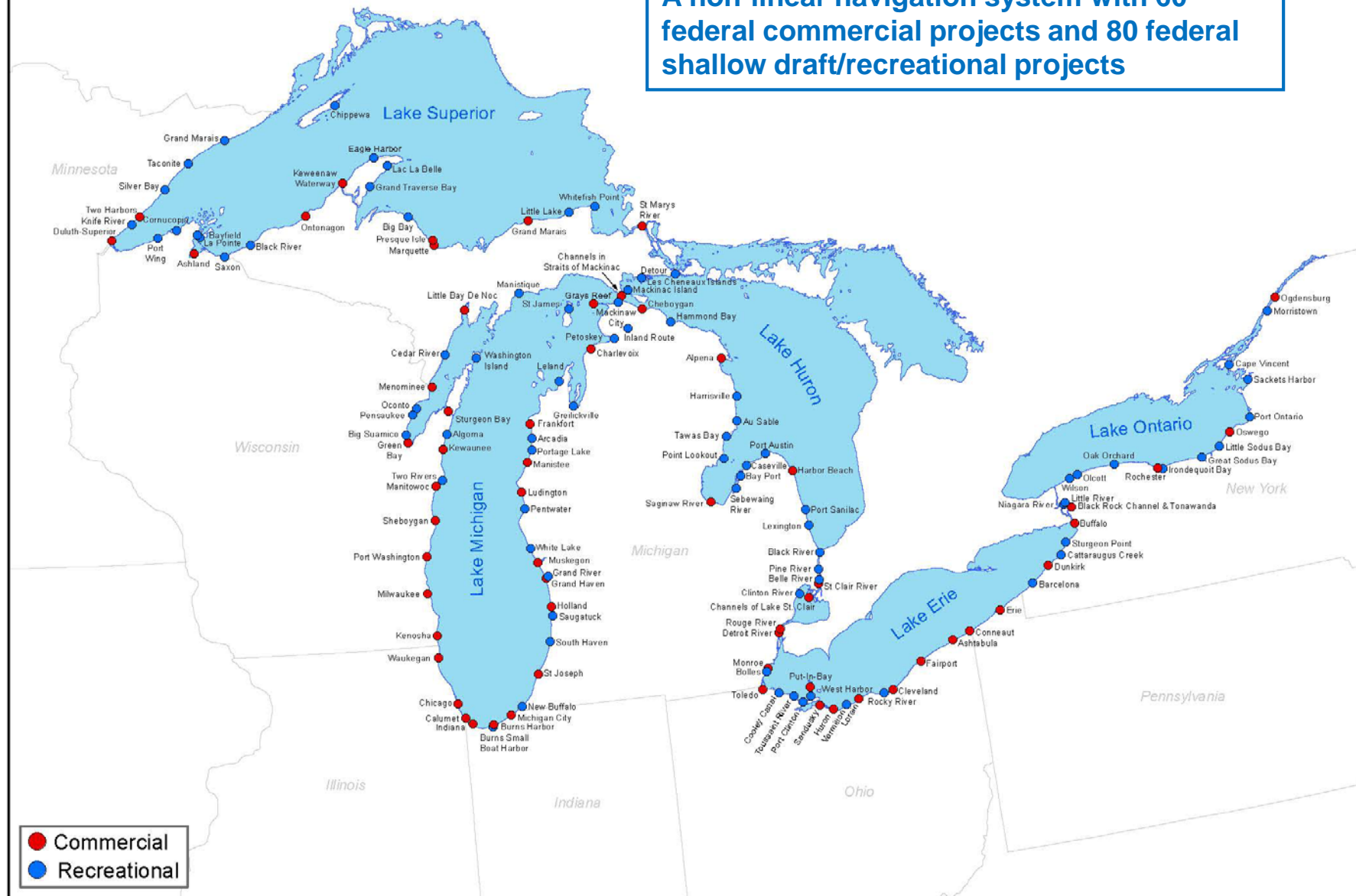


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Federal Harbors on the Great Lakes



A non-linear navigation system with 60
federal commercial projects and 80 federal
shallow draft/recreational projects



FEDERAL BUDGET PROCESS

- The Corps submits budget requests for all federal harbors (commercial and recreational) with operation & maintenance needs
- With the limited funding available, operations and maintenance funding for deep draft navigation projects usually takes priority over shallow draft/recreational harbors
- Subsistence harbors and harbors that support ferries, commercial fishing or the US Coast Guard are given a higher priority than strictly recreational harbors



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CORPS EFFORTS ON RECREATIONAL HARBORS

- Condition surveys of all recreational harbors each year; results posted on Detroit District webpage
- Structure inspections
- Updating signs
- Minor repairs that affect safety – for example: safety ladders
- Occasional technical assistance/advice



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WATER RESOURCES REFORM & DEVELOPMENT ACT (WRRDA) 2014

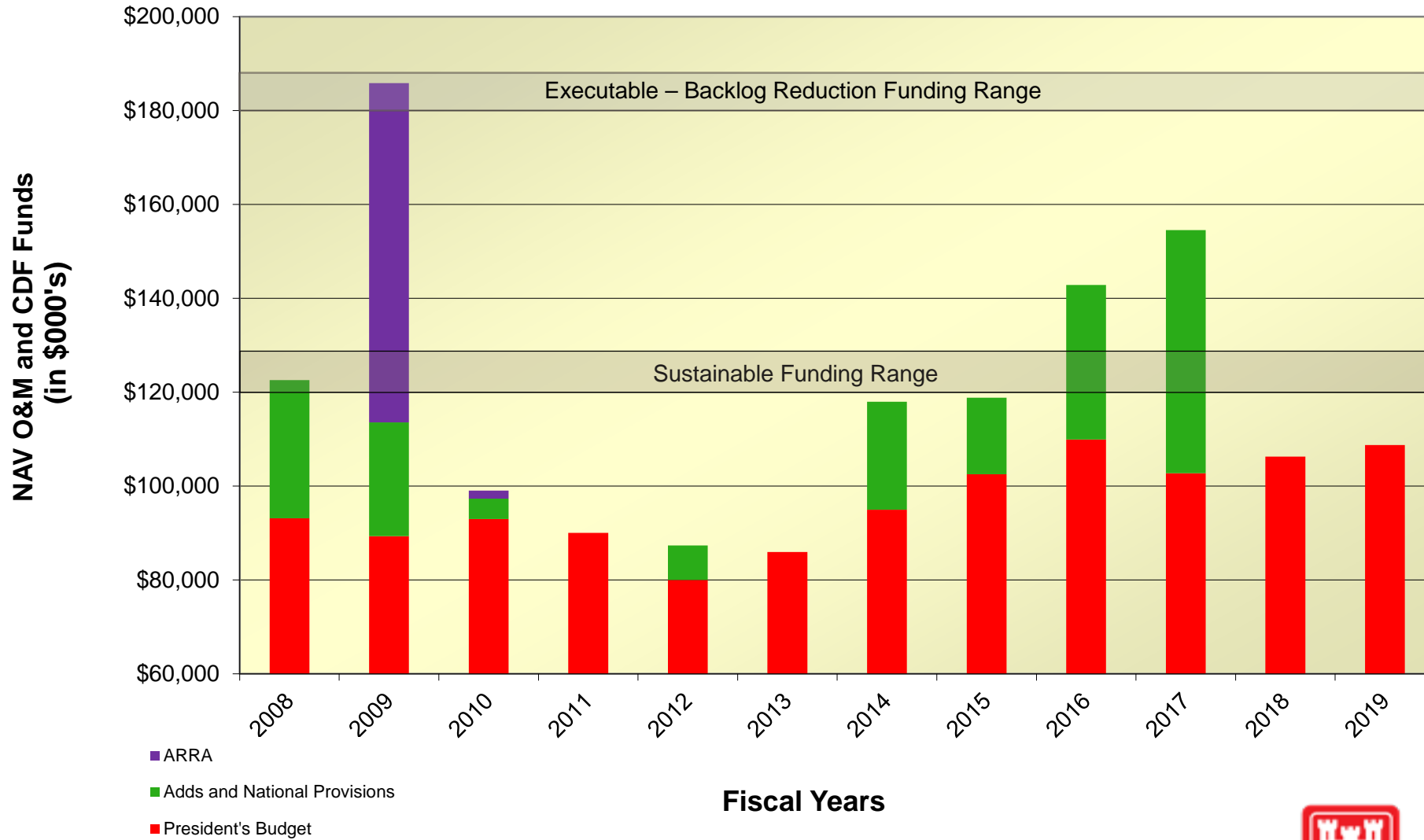
- The Corps must manage all the individually authorized projects in the Great Lakes Navigation System as components of a single, comprehensive system, recognizing the interdependency of ports
- The Corps shall not allocate funds solely on tonnage
- Establishes funding targets for expenditure of HMTF funds for the next 10 years including 10% of “priority funds” to GL
- Emerging harbors (less than 1M tons) receive 10% of funding above 2012 HMTF appropriated funds (\$898M)



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GL NAVIGATION FUNDING HISTORY



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FY 17 CORPS FUNDING

- Congress passed the FY17 Consolidated Appropriations Act May 4, 2017
- The FY17 Appropriations bill included FY17 President's Budget with some adjustments, plus additional O&M funds for ongoing work – to be allocated by USACE HQ

Additional Funding for Ongoing Work

- Navigation Maintenance	\$25.3M
- Deep-draft harbor and channel	\$258M
- Small, remote, or subsistence nav	\$50M



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FY17 GL Navigation President's Budget + Work Plan Funding

Great Lakes Navigation Operations & Maintenance

\$102.7M + \$51.8M = \$154.5M

Key Items

\$38.4M + \$10M in Dredging (31 projects: 3.2M + 0.73M cy)

\$8.86M in Dredged Material Management

\$9.6M in Soo Asset Renewal

\$30.7M in navigation structure repair (by contract)



FY17 PBUD + WORK PLAN DREDGING (\$48.4M)

Ashtabula Harbor
Buffalo Harbor +
Burns Harbor
Channels of Lake St. Clair
Cleveland Harbor +
Detroit River
Duluth-Superior Harbor
Fairport Harbor
Grand Haven Harbor
Green Bay Harbor
Holland Harbor
Indiana Harbor
Keweenaw Waterway
Saginaw River
Sandusky Harbor
St. Joseph Harbor
Sturgeon Bay
Toledo Harbor
Waukegan Harbor

Inland Route
Leland Harbor
Barcelona Harbor
Dunkirk Harbor
Great Sodus Harbor
Little Lake Harbor
Little Sodus Harbor
Port Wing Harbor
Saxon Harbor
Toussaint River
West Harbor
Wilson Harbor

Red: received funding in workplan



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FY 18 CORPS FUNDING STATUS

- FY18 Appropriation passed by Congress and signed by the President on March 23, 2018
- Funding based on FY18 President's Budget at this time
- Awaiting final allocation from USACE HQ of Additional Funds

Additional Funds in FY18 Appropriation for Navigation applicable to GL:

- Navigation Maintenance	\$24.28M
- Deep-draft harbor and channel	\$341.4M
- Small, remote, or subsistence nav	\$50M



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FY 18 GREAT LAKES NAVIGATION PRESIDENT'S BUDGET

Great Lakes Navigation Operations & Maintenance
\$106.23M

Key Items

\$37.85M in Dredging (16 projects; 2.95M cy)

\$10.9M in Dredged Material Management

\$8.9M in Soo Locks Maintenance



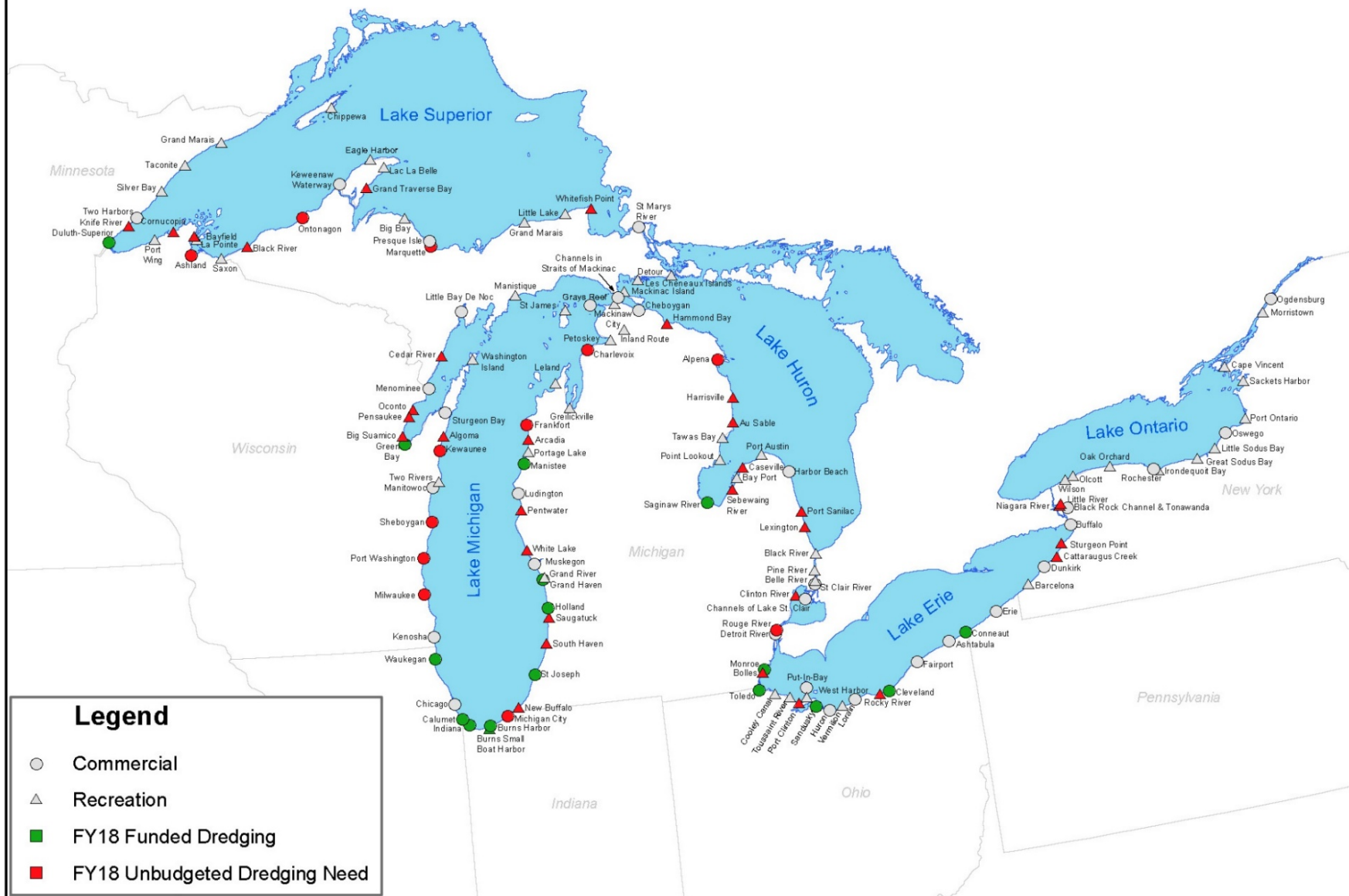
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FY18 DREDGING FUNDING AND REQUIREMENTS



FY 19 GREAT LAKES NAVIGATION PRESIDENT'S BUDGET

Great Lakes Navigation Operations & Maintenance
\$108.7M

Key Items

\$39.8M in Dredging (21 projects; 2.9M cy)

\$10.6M in Dredged Material Management

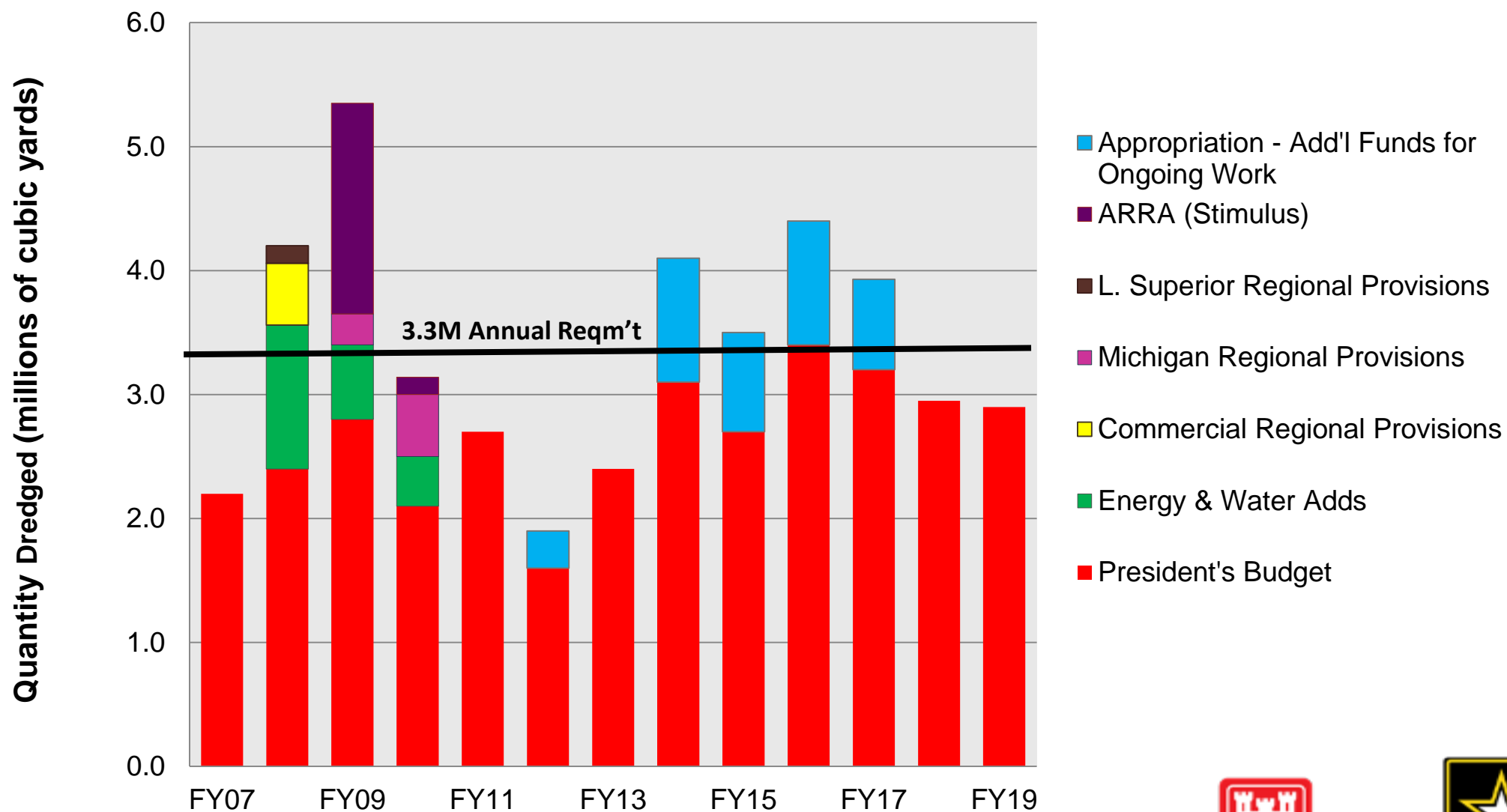
\$2.0M in Soo Locks Maintenance



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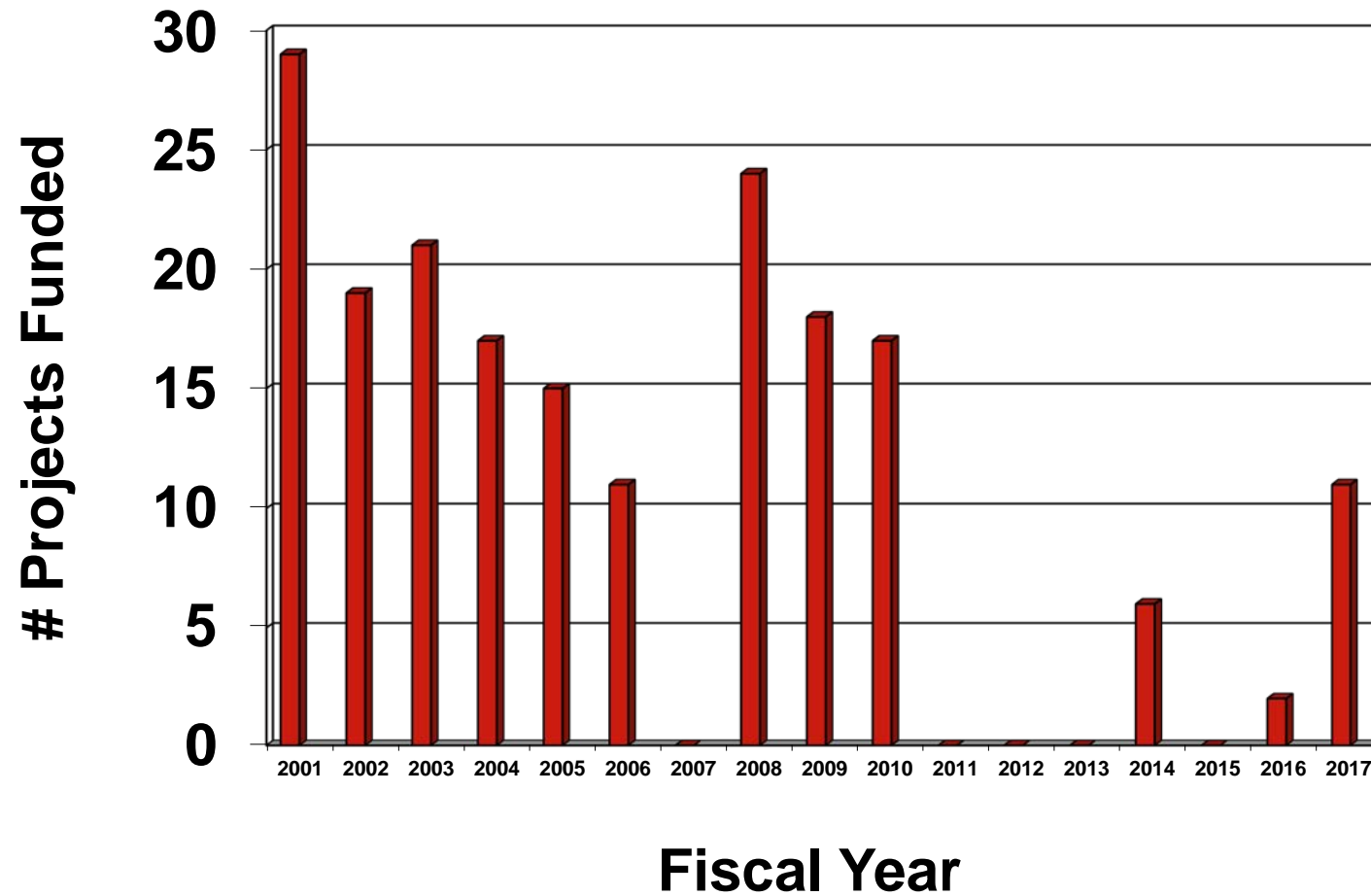
DREDGING FUNDING TRENDS 2007 – 2019



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HISTORICAL SHALLOW DRAFT/ RECREATIONAL HARBOR FUNDING



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GREAT LAKES WATER LEVELS



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WATER LEVELS ON THE GREAT LAKES

- All of the Great Lakes are currently above average
- Lake Superior levels were a few inches below record high this fall/winter; significant erosion due to storms in late October
- Erosion of coastal bluffs has increased over the past few years with the higher water levels after nearly a decade of low water and apparent stability



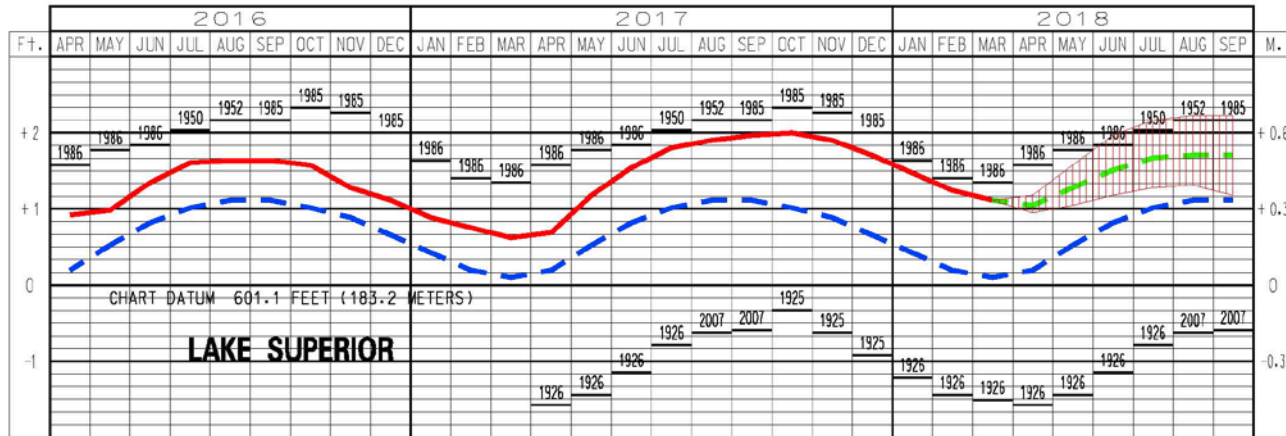
Photo: LakeSuperiorPhoto.com



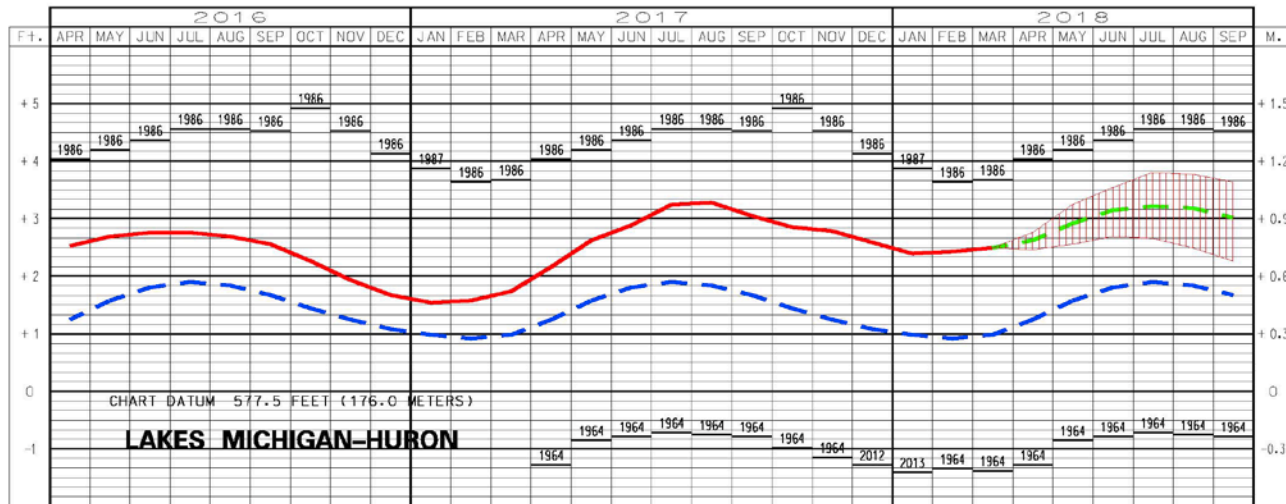
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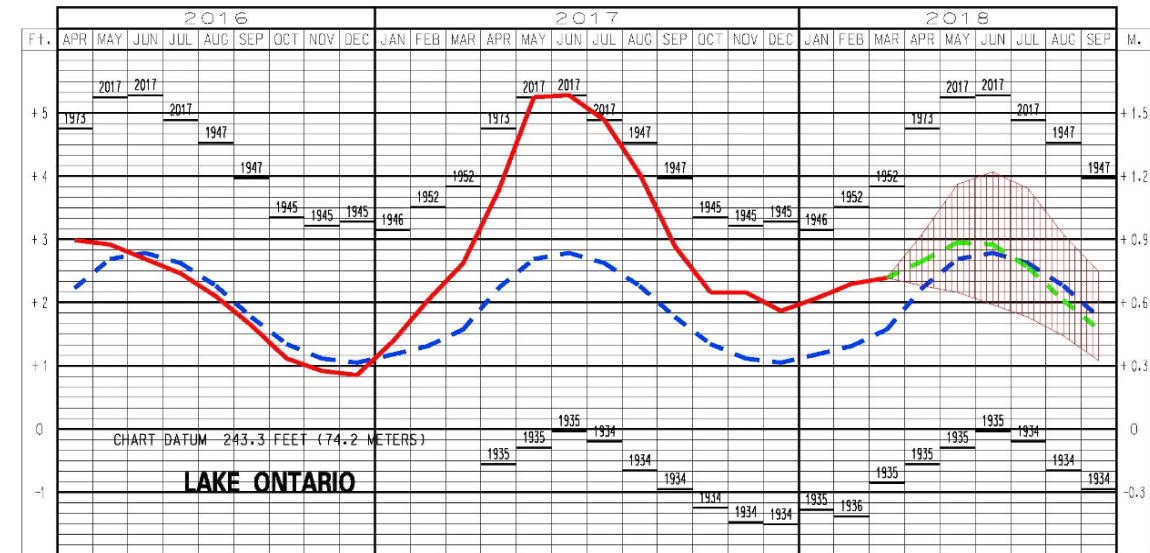
LAKE SUPERIOR WATER LEVELS - APRIL 2018



LAKES MICHIGAN-HURON WATER LEVELS - APRIL 2018



LAKE ONTARIO WATER LEVELS - APRIL 2018



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NAVIGATION STRUCTURE REPAIRS



*Grand Haven –
Settlement and
Loss of Fill*



*Ludington - Exposed /
Deteriorating Foundation*



*Barcelona – Complete
Breach of Lakeside
Structure*



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SAXON HARBOR



PORTAGE LAKE



- Sink holes indicate settlement behind revetment/loss of fill
- Work to begin later this spring



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RECREATIONAL HARBOR SUCCESS STORIES

Port Washington – \$950K funded in FY14 Corps budget, contributed funds agreement with City in 2016 provided \$1M in funding for partial repairs, follow-on \$250K agreement with City in 2017 for additional breakwater stone replenishment (to be complete Spring 2018). City continues to work on obtaining additional funding to complete repairs.

Portage Lake – contributed funds agreement w/ State of Michigan for design and start of repair of revetment, funds for completion of repairs received in Corps' FY17 final O&M funding allocation (contract awarded w/ work to begin Summer 2018)

Barcelona Harbor, NY – funds received in the FY16 workplan to begin repairs on structure that blew out in late 2015.

City of Buffalo – Bird Island structure/walkway repair; obtained grant funds and provided to Corps through contributed funds process



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ALTERNATIVE TO CORPS FUNDED MAINTENANCE

- There are two primary methods for local communities to accomplish dredging outside of the traditional Corps dredging process:
 - Local community signs an agreement with the Corps to provide funding to the Corps and the Corps accomplishes the dredging including design, contractor acquisition, and dredging quality assurance.
 - Local community obtains a permit from the Corps and the state. The Corps will grant a permit good for 10 years. Must check state requirements.



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CONTRIBUTED FUNDS AGREEMENTS

- Local community contributes funds to the Corps to conduct the dredging or structure work on the federal project.
- Previous experience – agreements have taken a very long time
- New model agreements expedite process to under 120 days
- Blanket agreement now in place with State of Michigan for maintenance actions at federal shallow draft harbors in the State - expedite the process of accepting contributed funds in the future should state funding become available. (Signed 1 SEP 2017, five years, up to \$10M/year)

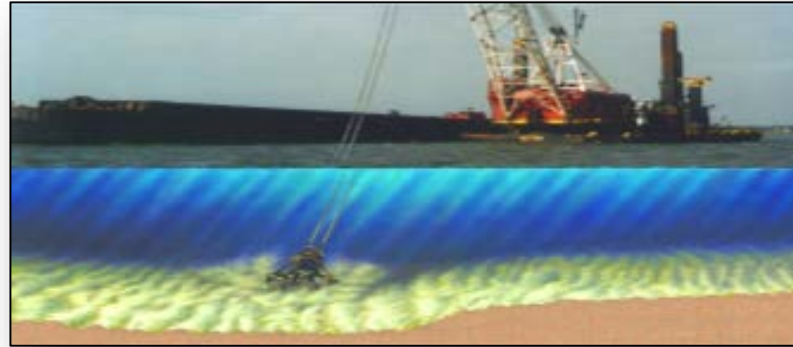


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NAVIGATION

Section 107 of the 1960 River and Harbor Act, as amended



SCOPE: Provides for developing and constructing small navigation projects limited to a federal cost of \$10,000,000.

STUDY COSTS: First \$100,000 of feasibility phase is a 100% federal cost; further study costs are 50% federal and 50% non-federal.

DESIGN & CONSTRUCTION: Commercial navigation project non-federal costs may range from 10% to 50%. Recreational navigation projects are 50% non-federal.

LIMITATIONS: Has to show 50% commercial benefits and have a positive benefits to cost ratio.



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HARBOR FACT SHEETS



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Barcelona Harbor, NY

Harbor Features

- Located on Lake Erie in the Town of Westfield, Chautauqua County, NY
- Authorization: River & Harbor Act of 1945
- Shallow draft recreational harbor
- Project depths are 10 feet in the entrance channel and 8 feet in the harbor basin.
- The east and west breakwaters with a total length of 1,730 feet protect the harbor.
- Other features include public transient slips and launching facilities.
- Major stakeholders include the Town of Westfield, one private marina, commercial and charter fishing interests, a charter diving operation, and the recreational boating community.



Project Requirements

- The harbor typically requires dredging every 5 to 10 years to maintain the navigation channel. Dredging was last completed in 2017 when approximately 34,000 cubic yards of material were removed. Additional maintenance dredging is needed in 2019.
- Repairs to failed sections of the west breakwater were completed in 2017.

Consequences of Not Maintaining the Project

- Potential safety issues for recreational boating community
- Potential functional loss of Harbor of Refuge
- Negative economic impacts, locally and regionally

Transportation Importance

- Harbor of Refuge
- Supports nine charter fishing boats generating approximately \$73,500 in net income annually. Also supports two licensed commercial fishing boats and a chartered diving operation.

U.S. Army Corps of Engineers Fiscal Year (FY) 2017, 2018, and 2019
Barcelona Harbor, NY - Project Requirements and President's Budget (\$1,000)

Work Package	FY17 Requirement	FY17 Appropriation	FY18 Requirement	FY18 President's Budget	FY19 Requirement	FY19 President's Budget
Maintenance Dredging	675	675	0	0	0	0
Sediment Sampling & Federal Standard Determination	0	0	10	0	80	0
TOTAL	675	675	10	0	80	0

Congressional Interests

- Representative Tom Reed R NY-23
- Senator Charles Schumer D NY
- Senator Kirsten Gillibrand D NY

www.lre.usace.army.mil/greatlakes/navigation



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HARBOR FACT SHEETS ARE KEY COMMUNICATION TOOLS

- Identifying the economic and social impacts related to maintaining the authorized project – jobs, local and regional economic impacts
- Identify other critical factors – subsistence harbor, support to Coast Guard, what infrastructure protects
- Project requirements – dredging and structural repair needs



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STAKEHOLDER INVOLVEMENT

- We need your input on critical system requirements at your harbor or project
- Operations Chiefs from each District are available any time to discuss your particular issues and concerns
- Webpage is an important mode of communication: meetings, presentations, fact sheets
- Updated Fact Sheets with FY17 appropriation and FY18 and FY19 President's Budget are on our website; will be updated with FY18 final allocations as soon as they are released.

www.lre.usace.army.mil/greatlakes/navigation



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CAPITOL HILL UPDATE

**STEVE FISHER, EXECUTIVE DIRECTOR
AMERICAN GREAT LAKES PORTS ASSOCIATION**



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STAKEHOLDER INPUT



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QUESTIONS??

